

**AMENDMENT 1
EXHIBIT A**

This is Amendment 1 to Exhibit A to the Award Agreement entered on May 28, 2019 by and between Coastal Community Resilience, Inc., d.b.a. RISE and Grow Oyster Reefs, LLC.

PHASE TWO – PROJECT DEVELOPMENT AND IMPLEMENTATION

STATEMENT OF WORK AND BUDGET

Grow Oyster Reefs LLC will use the award to advance and demonstrate benefits of its patent-pending bio-designed reef tile products that help control erosion and shoreline flooding to help homeowners protect their coastal property. The product specifically advanced under this grant are “Reef Tiles”, “Reef Disks” and “Reef Bags” as they all perform differently in terms of providing property owners a system that address their varied shoreline conditions. Additionally, the award will be used to scale production, data collection, sales, and marketing capabilities to advance Grow’s revenue generation potential. Production and product pilots will be conducted in Hampton Roads, Virginia.

Period of Performance: September 1, 2019 – August 31, 2020

Task 2.1: Administration and Mobilization

Outcome: To have in place the basic physical and process infrastructure to stay on task and in compliance with the RISE grant and be able to minimally operate Grow as a business

Task 2.1 Deliverable

- Monthly reports summarizing performed work and achievements (including updates on press coverage, press releases, interviews, and community presentations highlighting Grow Oyster Reefs or RISE, fund raising achievements, new grants received, new customers and partners secured, etc.).
- Quarterly (starting 3 months from execution of this Amendment) statement of sales revenues from all types of GROW products fabricated using raw materials, labor and/or equipment paid for by the RISE award to ensure compliance with the \$35,000 annual Program Income threshold.
- The final grant report summarizing findings of data collection efforts related to comparative performance evaluation and other product and business metrics identified during ICAP.
- Receipts for all ODCs

Task 2.1 Subtasks

- 2.1.1: Administrative support for bookkeeping, invoicing and grant reporting for the duration of the RIF contract/period of performance

Task 2.1 Completion Timeline

- August 31, 2020

Task 2.2: Product Molds Analysis

Outcome: Thorough understanding of the options, tradeoffs and availability of materials for molds and for locating quality suppliers with the experience to develop the R&D molds.

Task 2.2 Deliverable

- A memo summarizing the findings of materials and vendors analysis for Reef Tiles, Reef Discs, Reef Bags and Reef Ropes.

Task 2.2 Subtasks

- 2.2.1: Analysis of materials and vendors to produce R&D molds. Analysis will cover materials and suppliers of Reef Tiles, Reef Discs, Reef Bags and Reef Ropes.

Task 2.2 Completion Timeline

- August 31, 2020

Task 2.3: Design for Product R&D Molds

Outcome: Final design specifications for the Reef Tile and Reef Disks molds and prototype patterns of Reef Bags and the procurement of these from quality vendors.

Task 2.3 Deliverable

- A memo inclusive of final design specification for Reef Tiles, Reef Disks, Reef Bags and Reef Ropes
- Vendor invoices for all ODCs, contracts and a small purchase form documenting procurement (including sam.gov verification for contracts over \$25,000).

Task 2.3 Subtasks

- 2.3.1: Creation of design specifications for R&D molds for Reef Tile production
- 2.3.2: Creation of design specifications for R&D molds for Reef Disc production
- 2.3.3: Creation of design specifications for Reef Bag prototype

Task 2.3 Other Direct Costs

- 2.3.4: Purchase of Reef Tile molds
- 2.3.5: Purchase of Reef Disk molds
- 2.3.6: Purchase of Reef Bag pattern prototypes
- 2.3.7: Intellectual property legal assistance fee

Task 2.3 Completion Timeline

- August 31, 2020

Task 2.4: Production Equipment Analysis and Purchase

Outcome: A production environment sufficient to produce the “Demonstration Products” noted in Task 2.8 as well as handle the capacity needs of initial paying customers.

Task 2.4 Deliverable

- A memo including a list of equipment products and suppliers
- Vendor invoices for all ODCs, contracts and a small purchase form documenting procurement if over \$3,500 (including sam.gov verification for contracts over \$25,000).

Task 2.4 Subtasks

- 2.4.1: Analysis of equipment needed (casting tables, cement mixer and tools) and available suppliers.

Task 2.4 Other Direct Costs

- 2.4.2: Purchase of equipment, including casting tables, cement mixer and tools

Task 2.4 Completion Timeline

- August 31, 2020

Task 2.5 Analysis of Core Components for Web-based Infrastructure for Sales, Support and Customer Service

Outcome: Thorough analysis and understanding of the options, tradeoffs and availability of technology components that will constitute the sales, support and customer service infrastructure to operate Grow.

Task 2.5 Deliverable

- A memo including findings of the analysis for eCommerce provider and content/ad distribution networks, including list of products & suppliers
- Vendor invoices for all ODCs, contracts and a small purchase form documenting procurement if over \$3,500 (including sam.gov verification for contracts over \$25,000).

Task 2.5 Subtasks

- 2.5.1: Identification and analysis of eCommerce providers
- 2.5.2: Analysis of content/ad distribution networks

Task 2.5 Other Direct Costs

- 2.5.3: Graphics/images creation for marketing

Task 2.5 Completion Timeline

- August 31, 2020

Task 2.6 Design of Sales, Support and Customer Service Capabilities for Web Infrastructure

Outcome: Final design specifications for an integrated and standards-based sales, support and customer service infrastructure upon which Grow will operate for the foreseeable future and which can be upgraded to meet changing business, industry and technical requirements.

Task 2.6 Deliverable

- A memo including technical diagrams (aka “wireframes”) of the marketing, eCommerce, OpiNet collaboration and placement systems.

Task 2.6 Subtasks

- 2.6.1: Design and specifications of marketing features
- 2.6.2: Design and specification of eCommerce features
- 2.6.3: Design and specification of OpiNet collaboration features
- 2.6.4: Design and specification of content placement network

Task 2.6 Completion Timeline

- August 31, 2020

Task 2.7 Configuration and Implementation of Core Web Infrastructure Components

Outcome: An integrated and standards-based sales, support and customer service infrastructure upon which Grow will operate for the foreseeable future and whose technical underpinnings allow it to be upgraded to meet changing business, industry and technology requirements.

Task 2.7 Deliverable

- A memo inclusive of screen shots of live systems for marketing features & content, eCommerce platform, OpiNet collaboration features & content, and ad/content placement network. A web link to a live, public system.
- Vendor invoices for all ODCs, contracts and a small purchase form documenting procurement if over \$3,500 (including sam.gov verification for contracts over \$25,000).

Task 2.7 Subtasks

- 2.7.1: Configuration of marketing features and content
- 2.7.2: Configuration of eCommerce platform
- 2.7.3: Configuration of OpiNet collaboration features & content
- 2.7.4: Configuration of ad/content placement network

Task 2.7 Other Direct Costs

- 2.7.5: Purchase of tested ad/content placement process
- 2.7.6: Marketing graphics and images development

Task 2.7 Completion Timeline

- August 31, 2020

Task 2.8 Production of Demonstration Products

Outcome: A (to-be-determined) mix of products (i.e. tiles, disks and bags) to be given for free or sold in a total amount not to exceed \$35,000 annually beginning from the execution of this Amendment. The users will mostly be non-profits but some of these products could go to thought leaders or entities that are either municipalities or commercial organizations.

Task 2.8 Deliverable

- A memo with a list of identified targets and their needs
- Vendor invoices for all ODCs, contracts and a small purchase form documenting procurement (including sam.gov verification for contracts over \$25,000).

Task 2.8 Subtasks

- 2.8.1: Identification of targets and their needs

Task 2.8 Other Direct Costs

- 2.8.1: Production of demonstration products for target partners (includes labor and raw materials)

Task 2.8 Completion Timeline

- August 31, 2020

Task 2.9 Expert Oversight and Data Collection

Outcome: Contracts with non-profits the Elizabeth River Project (ERP) and Virginia Institute for Marine Sciences for the former to oversee field work and the latter to report on data captured from current and new projects.

Task 2.9 Deliverable

- Executed contracts with ERP and VIMS and their invoices

Task 2.9 Other Direct Costs

- 2.9.1: Elizabeth River Project (ERP) fee to oversee field work
- 2.9.2: Virginia Institute of Marine Sciences (VIMS) fee to collect and report data

Task 2.9 Completion Timeline

- August 31, 2020

Task 2.10 Analysis of Core Components for “Native iOS” Geo-Data Capture & Remote Communications Mobile App

Outcome: Analysis of the SDK (software development kit) options, tradeoffs and availability that will be utilized to construct a “native” iOS app that can geo-identify locations like reefs, support remote messaging and communications, capture data remotely from community members, integrate with core social media platforms like Facebook, and act as a software integration component that other mobile applications can connect with.

Task 2.10 Deliverable

- A memo including findings of the analysis of SDKs including list of products & suppliers
- Vendor invoices for all ODCs, contracts and a small purchase form documenting procurement if over \$3,500 (including sam.gov verification for contracts over \$25,000).

Task 2.10 Subtasks

- 2.10.1: Identification and analysis of SDKs available

Task 2.10 Completion Timeline

- August 31, 2020

Task 2.11 Design of Core Components for “Native iOS” Geo-Data Capture & Remote Communications Mobile App

Outcome: Final design specifications for the “native” iOS app that can geo-identify locations like reefs, support remote messaging and communications, capture data remotely from community members, integrate with core social media platforms like Facebook, and act as a software integration layer that other mobile applications can connect with.

Task 2.11 Deliverable

- A memo including technical diagrams (aka “wireframes”) of the key components of the native iOS app

Task 2.11 Deliverable Subtasks

- 2.11.1: Design specifications of geo-location features
- 2.11.2: Design specifications of messaging features
- 2.11.3: Design specifications of data-capture features
- 2.11.4: Design specifications of social media features

Task 2.11 Completion Timeline

- August 31, 2020

Task 2.12 Configuration and Implementation of Core Components for “Native iOS” Geo-Data Capture & Remote Communications Mobile App

Outcome: An integrated and standards-based “native” iOS app that is accepted into the Apple store that can geo-identify locations like reefs, support remote messaging and communications, capture data remotely from community members, integrate with key social media platforms like Facebook, and act as a software integration component that other mobile applications can connect with.

Task 2.12 Deliverable

- A memo inclusive of screen shots of the live app and its core features and a web link to a live, public system whereby the app can be downloaded.

- Vendor invoices for all ODCs, contracts and a small purchase form documenting procurement if over \$3,500 (including sam.gov verification for contracts over \$25,000)

Task 2.12 Subtasks

- 2.12.1: Configuration of geo-location features of the iOS app
- 2.12.2: Configuration of messaging features of the iOS app
- 2.12.3: Configuration of data-capture features of the iOS app
- 2.12.4: Configuration of social media features of the iOS app
- 2.12.5: Graphics/images creation for the app

Task 2.12 Other Direct Costs

- 2.7.6: Marketing graphics and images development

Task 2.12 Timeline

- August 31, 2020

Equipment and Supplies Purchases

Awardee agrees to comply with the regulations at 2 CFR Part 200.3 regarding the title, use, management, and disposition of equipment and supplies.

Environmental Review

Awardee certifies that the award will not be used for any outdoor construction and/or installation.

Budget/Sources and Uses of Funds

TASK	DESCRIPTION	RIF COST
Task 2.1 - Administrative and Mobilization		
Task 2.1 Deliverable Subtasks		
2.1.1	Administrative support for bookkeeping, invoicing, and grant reporting	
Task 2.1 Deliverable ODCs		
Task 2.1 Deliverable Fee Subtotal		\$5,000.00
Task 2.1 Deliverable ODCs Subtotal		\$0.00
Task 2.2 - Product Reef Mold Analysis		
Task 2.2 Deliverable Subtasks		
2.2.1	Analysis of materials and suppliers to produce R&D molds - Reef Tiles	
2.2.2	Analysis of materials and suppliers to produce R&D molds - Reef Disks	
2.2.3	Analysis of materials and suppliers to produce R&D molds - Reef Bags	
2.2.4	Analysis of materials and suppliers to produce R&D molds - Reef Ropes	
Task 2.2 Deliverable Fee Subtotal		\$30,000.00
Task 2.2 Deliverable ODCs Subtotal		\$0.00
Task 2.3 - Design for Product R&D Molds and Purchase of Reef Molds		
Task 2.3 Deliverable Subtasks		
2.3.1	Creation of design specifications for R&D molds for Reef Tiles production	
2.3.2	Creation of design specifications for R&D molds for Reef Discs production	
2.3.3	Creation of design specifications for Reef Bags prototyping	
2.3.4	Creation of production specs for Reef ropes	
Task 2.3 Deliverable ODCs		
2.3.5	Purchase of Reef Tile molds	
2.3.6	Purchase of Reef Disk molds	
2.3.7	Purchase of Reef Bag patterns	
2.3.8	Intellectual property legal assistance fee	
Task 2.3 Deliverable Fee Subtotal		\$40,000.00
Task 2.3 Deliverable ODCs Subtotal		\$50,000.00

Task 2.4 - Production Equipment Analysis and Purchase		
Task 2.4 Deliverable Subtasks		
2.4.1	Analysis of production equipment (casting tables, cement mixer, tools) and suppliers	
Task 2.4 Deliverable ODCs		
2.4.2	Purchase of equipment, including casting tables, cement mixer and tools	
Task 2.4 Deliverable Fee Subtotal		\$2,000.00
Task 2.4 Deliverable ODCs Subtotal		\$8,000.00
Task 2.5 - Analysis of Core Components for Web-based Infrastructure for Sales, Support and Customer Services		
Task 2.5 Deliverable Subtasks		
2.5.1	Identification and analysis of eCommerce providers	
2.5.2	Analysis of content/ad distribution networks	
Task 2.5 Deliverable ODCs		
2.5.3	Graphics/images creation for marketing	
Task 2.5 Deliverable Fee Subtotal		\$10,000.00
Task 2.5 Deliverable ODCs Subtotal		\$3,000.00
Task 2.6 - Design for Sales, Support and Customer Service Capabilities for Web Infrastructure		
Task 2.6 Deliverable Subtasks		
2.6.1	Design and specifications of marketing features	
2.6.2	Design and specification of eCommerce features	
2.6.3	Design and specification of OpiNet collaboration features	
2.6.4	Design and specification of content placement network	
Task 2.6 Deliverable Fee Subtotal		\$12,000.00
Task 2.6 Deliverable ODCs Subtotal		\$0.00

Task 2.7 - Configuration and Implementation of Core Web Infrastructure Components		
Task 2.7 Deliverable Subtasks		
2.7.1	Configuration of marketing features and content	
2.7.2	Configuration of eCommerce platform	
2.7.3	Configuration of OpiNet collaboration features & content	
2.7.4	Configuration of ad/content placement network	
Task 2.7 Deliverable ODCs		
2.7.5	Purchase of tested ad/content placement process	
Task 2.7 Deliverable Fee Subtotal		\$18,000.00
Task 2.7 Deliverable ODCs Subtotal		\$4,000.00
Task 2.8 - Production of Demonstration Products for Distribution Partners		
Task 2.8 Deliverable Subtasks		
2.8.1	Identification of targets and their needs	
2.8.2	Production of products for target partners - labor	
2.8.3	Identification of strategic influencers and their needs and fit with Grow Oysters	
Task 2.8 Deliverable ODCs		
2.8.3	Production of products for target partners - raw materials	
Task 2.8 Deliverable Fee Subtotal		\$20,500.00
Task 2.8 Deliverable ODCs Subtotal		\$7,500.00
Task 2.9 - Expert Oversight and Data Collection		
Task 2.9 Deliverable ODCs		
2.9.1	Fee to Elizabeth River Project to oversee field work	
2.9.2	Fee to VIMS to collect and report data on field work	
Task 2.9 Deliverable Fee Subtotal		\$0.00
Task 2.9 Deliverable ODCs Subtotal		\$25,000.00
Task 2.10 - Analysis of Core Components for "Native iOS" Geo-Data Capture & Remote Communications Mobile Ap		
Task 2.10 Deliverable Subtasks		
2.10.1	Identification and analysis of SDKs available	
Task 2.10 Deliverable Fee Subtotal		\$3,500.00
Task 2.10 Deliverable ODCs Subtotal		\$0.00

Task 2.11 - Design of Core Components for "Native iOS" Geo-Data Capture & Remote Communications Mobile App		
Task 2.11 Deliverable Subtasks		
2.11.1	Design specifications of geo-location features	
2.11.2	Design specifications of messaging features	
2.11.3	Design specifications of data-capture features	
2.11.4	Design specifications of social media features	
Task 2.11 Deliverable ODCs		
Task 2.11 Deliverable Fee Subtotal		\$12,000.00
Task 2.11 Deliverable ODCs Subtotal		\$0.00
Task 2.12 - Configuration of Core Components for "Native iOS" Geo-Data Capture & Remote Communications Mobile App		
Task 2.12 Deliverable Subtasks		
2.12.1	Configuration of geo-location features of the iOS app	
2.12.2	Configuration of messaging features of the iOS app	
2.12.3	Configuration of data-capture features of the iOS app	
2.12.4	Configuration of social media features of the iOS app	
2.12.5	Graphics/images creation for the app	
Task 2.12 Deliverable ODCs		
Task 2.12 Deliverable Fee Subtotal		\$24,000.00
Task 2.12 Deliverable ODCs Subtotal		\$0.00
RIF Remaining Budget After ICAP		\$274,500.00
RIF Phase 2 Total Deliverable Fees		\$177,000.00
RIF Phase 2 Total Deliverable ODCs		\$97,500.00
RIF Phase 2 TOTAL AMOUNT		\$274,500.00

Awardee

By: 

Name: Evelyn Tickle

Title: Founder

Date: 9.12.19

Coastal Community Resilience, Inc., DBA RISE

By: _____

Name: Paul A. Robinson, Ph.D.

Title: Executive Director, RISE

Date: _____